

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Toshiya SAGISAKA, et al.

SERIAL NO: NEW APPLICATION

GAU:

FILED: HEREWITH

EXAMINER:

FOR: NEW ARYL AMINE POLYMER, THIN FILM TRANSISTOR USING THE NEW ARYL AMINE POLYMER,  
AND METHOD OF MANUFACTURING THE THIN FILM TRANSISTOR

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☒ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
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(OSMMN 05/03)

**LIST OF RELATED CASES**

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/ Applicant</u>
194076US0	09/610,427	07/05/00	RI, et al.
218335US0 CONT	10/051,230	01/22/02	RI, et al.
205260US0	6,492,079	12/10/02	SHIMADA, et al.
209798US0	6,596,449	07/22/03	SHIMADA, et al.
PER CLIENT	4,892,949	01/09/90	SASAKI
PER CLIENT	4,859,556	08/22/89	SASAKI
0557-3873-0X	5,840,454	11/24/98	NAGAI, et al.
0557-4344-0X DIV	6,018,014	01/25/00	NAGAI, et al.
0557-4734-0	6,187,494	02/13/01	KAWAMURA, et al.
198421US0-DIV	6,303,736	10/16/01	KAWAMURA, et al.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. <b>248442US0</b>		SERIAL NO. <b>NEW APPLICATION</b>	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT <b>Toshiya SAGISAKA, et al.</b>			
				FILING DATE <b>HEREWITH</b>		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,492,079	12/10/02	SHIMADA, ET AL.			
	AB	6,596,449	07/22/03	SHIMADA, ET AL.			
	AC	4,892,949	01/09/90	SASAKI			
	AD	4,859,556	08/22/89	SASAKI			
	AE	5,840,454	11/24/98	NAGAI, ET AL.			
	AF	6,018,014	01/25/00	NAGAI, ET AL.			
	AG	6,187,494	02/13/01	KAWAMURA, ET AL.			
	AH	6,303,736	10/16/01	KAWAMURA, ET AL.			
	AI						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                  NO		
	AJ	10-310635	11/24/98	JAPAN / w abstract			
	AK	08-157575	06/18/96	JAPAN / w abstract			
	AL	08-228034	09/03/96	JAPAN / w abstract			
	AM	08/228035	09/03/96	JAPAN / w abstract			
	AN	11-195790	07/21/99	JAPAN / w abstract			
	AO	58-198425	11/18/83	JAPAN / w abstract			
	AP	58-198043	11/17/83	JAPAN / w abstract			
	AQ	60-098437	06/01/85	JAPAN / w abstract			
	AR	WO97/09394	03/13/97	WIPO			
	AS						
	AT						
	AU						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AV	H. Rost, et al., Novel light emitting and photoconducting polyarylenevinylene derivatives containing phenylene arylamine and phenylene oxide units in the main chain, Synthetic Metals 84, pp. 269-270, 1997.					
	AW	R.C. Haddon, et al., C <sub>60</sub> thin film transistors, Appl. Phys. Lett 67 (1), 3 July 1995, pp. 121-123					
	AX	Zhenan Bao, et al., Organic field-effect transistors with high mobility based on copper phthalocyanine, American Institute of Physics, pp. 3066-3068, 1996.					
	AY	Zhenan Bao, et al, Soluble and processable regioregular poly (3-hexylthiophene) for thin film field-effect transistor applications with high mobility., American Institute of Physics, pp., 4108-4110, 1996.				<input checked="" type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT  Toshiya SAGISAKA, et al.			
				FILING DATE		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AAA	H. Sirringhaus, et al., Bis(dithienothiophene) organic field-effect transistors with a high ON/OFF ratio., American Institute of Physics, pp. 3871-3873, 1997.					
	AAB	Howard E. Katz, et al., a,a-Dihexylquaterthiophene: A Second Thin Film Single-Crystal Organic Semiconductor, Chemistry of Materials, Volume 10, Number 2, pp., 457-459, February 1998.					
	AAC	Gilles Horowitz, et al., Role of the semiconductor/insulator interface in the characteristics of $\pi$ -conjugated-oligomer-based thin-film transistors, Synthetic Metals, 51, pp. 419-424, 1992.					
	AAD	H. Fuchigami, et al., Polythiylenevinylene thin-film transistor with high carrier mobility, American Institute of Physics, Appl. Phys. Lett. 63, (10), 6 September 1993.					
	AAE	N. Miyaura, et al., The Palladium-catalyzed cross-coupling reaction of phenylboronic acid with haloarenes in the presence of bases., Synthetic Communications, 11(7), 513-519, 1981.					
	AAF	H. Sirringhaus, et al., High-Resolution Inkjet Printing of All-Polymer Transistor Circuits, Science Vol 290, PP., 2123-2126, December 2000.					
	AAG						
	AAH						
	AAI						
	AAJ						
	AAK						
	AAL						
	AAM						
	AAN						
	AAO						
	AAP						
	AAQ						
Examiner						Date Considered	
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